

Auburn University's Outreach Resources for K-12 STEM Partnerships

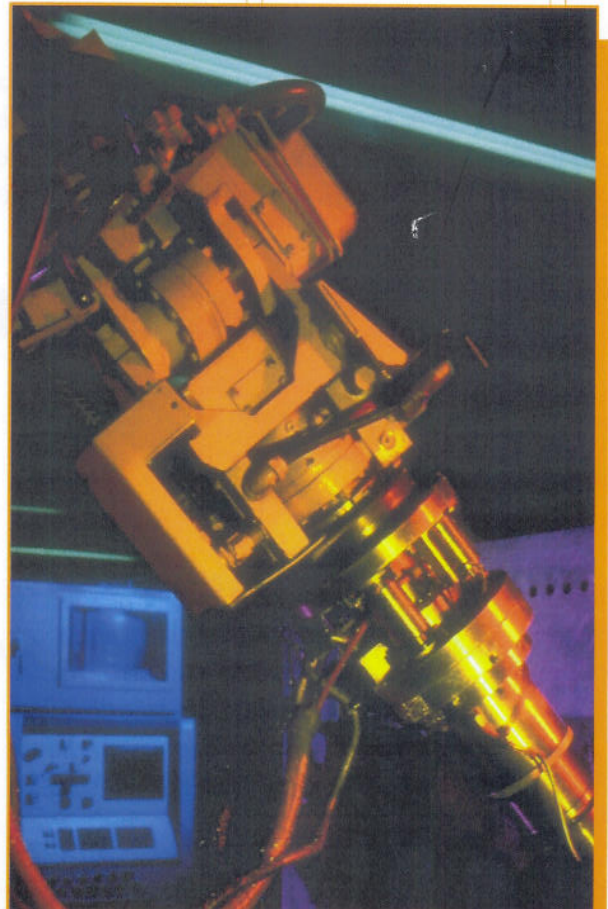
Auburn University has a long history of outreach to K-12 education, particularly in the sciences, technology, engineering and mathematics. Auburn University's Outreach division and AU's Colleges of Education, Engineering, and Science and Mathematics maintain educational partnerships with K-12 schools throughout the state, with particular concentration in counties of west and east Alabama. These initiatives provide strategic resources to K-12 school system administration, continuing education and instructional resources to teachers, and challenging academic programs to students. Student programs promote academic skills and encourage individuals to major in and ultimately seek careers in engineering, science, math and related fields. Programs are offered at school locations as well as on the AU campus and include residential academic camps, programs for advanced students, and thrilling competition experiences. Auburn University also oversees the area's regional airport, which is aligned with the university's curriculum for teaching and outreach purposes.

Auburn University hosts a large program of non-credit instruction. Annually, the university produces more than 1,100 outreach activities accounting for some 59,600 registrations. Of these programs, fully a third focuses on the fields of engineering, science, and math. This extensive program delivery capacity and existing disciplinary resources positions Auburn to be a major partner in national initiatives aimed at enhancing STEM education and workforce development.

The following are just a few examples of the many outreach partnerships and programs provided by Auburn University to K-12 schools and students:

Alabama and South's BEST (Boosting Engineering, Science and Technology) Robotics Competitions

Auburn University oversees the Alabama local competition and the regional championship for this program which promotes high school student interest in engineering and science through design/build competitions. More than 200 student teams (some 4000 students) from at least 11 states annually compete at the existing nine hubs that feed into South's BEST. They vie for the chance to win their local competitions and become one of 44 teams that advance to Auburn University for the championship.



Residential academic summer camps

Annual academic camp programs for high school students hosted by Auburn University promote academic study in engineering, science, mathematics, and aviation. These programs stimulate and challenge students' academic interests in these fields while serving as an effective bridge to the collegiate experience.



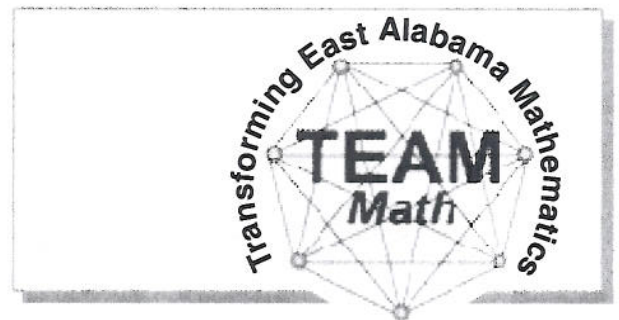
The Auburn-Opelika Robert G. Pitts Airport

A unit of Auburn University, the airport supports programs that reach out to K-12 schools. The airport's staff is willing to provide reasonable resources to support outreach efforts to these school children to foster aviation education efforts focusing on science, engineering, technology, and related fields.

Team Math and Team Science

These outreach programs partner with school systems throughout the east and central Alabama counties to provide resources to enhance teaching of science and math.

The program seeks to improve student achievement and understanding of science and mathematics, preparing them to excel in introductory college courses and/or major in those disciplines in college.



Science Olympiads

Auburn University hosts area Science Olympiads as part of state and national Olympiad competitions. These programs serve elementary to high school students. These academic interscholastic competitions are designed to increase student interest in science and to help improve the quality of science education in schools. The Science Olympiad consists of a series of individual and team events.

www.auburn.edu/outreach

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